

WE CLAIM:

1. (currently amended) Inbred corn seed of the line designated G3601, representative seed of said line that has have been deposited in the ATCC under accession number X.
2. (currently amended) A corn plant, and its parts, produced by the seed of Claim 1.
3. (currently amended) A tissue culture of regenerable of G3601 of Claim 1 wherein the cells of the tissue culture regenerates plants having ~~capable of expressing~~ the all of the physiological and morphological characteristics of G3601.
4. (currently amended) The tissue culture of regenerable cells according to Claim 3, the cells or protoplasts of said cells being selected from the group consisting of: leaves, pollen, embryos, roots, root tips, meristem, ovule, anthers, silk, flowers, kernels, ears, cobs, husks and stalks.
5. (currently amended) A corn plant having ~~capable of expressing~~ all of the physiological and morphological characteristics of G3601 regenerated from the cells of the tissue culture of Claim 3.
6. (cancelled)
7. (cancelled)
8. (cancelled)
9. (cancelled)

10. (cancelled)

11. (cancelled)

12. (cancelled

13. (cancelled)

14. (cancelled)

15. (cancelled)

16. (cancelled)

17. (cancelled)

18. (cancelled)

19. (cancelled)

20. (currently amended) ~~The pollen~~ Pollen of the corn plant of claim 2.

6 DISEASE RESISTANCE IN INBRED G3601

Eye Spot = 7.2

Gray leaf spot = 2.0

Gross wilt = 3.

Northern leaf blight = 4.6

#7 INSECT RESISTANCE IN INBRED

ECB1 = 5.0

ECB2 = 4.41143

Ear rate = 2.34375

[#8] The comparable inbred to G3601 is WD22, an inbred having a number of similarities. WD22 is an inbred which has been or is presently in a number of commercial hybrids that are in a similar region of adaption as most of the hybrids formed with G3601.

The Munsell code is a reference book of color, which is known and used in the industry and by persons with ordinary skill in the art of plant breeding.

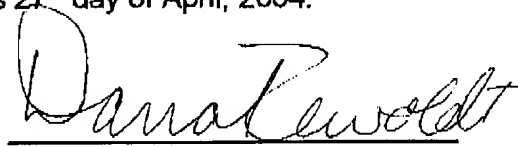
The purity and homozygosity of inbred G3601 is constantly being tracked using isozyme genotypes as shown in Table 2.

Isozyme Genotypes for G3601

Isozyme data were generated for inbred corn line G3601 according to procedures known and published in the art. The data in Table 2 gives the electrophoresis data on G3601 as compared to its two parents.

CERTIFICATE OF MAILING UNDER 37 C.F.R. 1.6

I hereby certify that the foregoing 2nd Response to Final Office Action of 1/5/2004 for application 09/811,048, amended specification consisting of 1 page, the marked claims consisting of 2 pages and one month extension of time (in duplicate) are being faxed to the Commissioner for Patents, at 703-372-3367 on this 27th day of April, 2004.


Dana Lewoldt

09/811,048